

SABIC® PPcompound PHC25-20

Polypropylene Copolymer

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® PPcompound PHC25-20 is a talc-filled copolymer for use in applications which involve high requirements in terms of stiffness, thermal dimensional stability as well as impact resistance. Typical examples of applications are dashboard carriers and console column cladding.

SABIC® PPcompound PHC25-20 is a designated automotive grade.

General Information			
Filler / Reinforcement	Talc		
Additive	Impact Modifier		
Features	Copolymer		
	Good Dimensional Stability		
	High Impact Resistance		
	High Stiffness		
	Impact Modified		
Uses	Automotive Applications		
	Automotive Interior Parts		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.5	g/10 min	ISO 1133
Molding Shrinkage (24 hr)	1.2	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Injection Molded)	68		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/5/50
Yield, 3.20 mm, Injection Molded	25.0	MPa	
Break, 3.20 mm, Injection Molded	20.0	MPa	
Tensile Strain (Break, 3.20 mm, Injection Molded)	170	%	ISO 527-2/5/50
Flexural Modulus ¹ (Injection Molded)	2200	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C, Injection Molded)	25	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (-40°C, Injection Molded)	24	kJ/m ²	ISO 179/1eU

Notched Izod Impact Strength			ISO 180/4A
-20°C, Injection Molded	4.5	kJ/m ²	
0°C, Injection Molded	6.0	kJ/m ²	
23°C, Injection Molded	15	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	110	°C	ISO 75-2/B
Vicat Softening Temperature	145	°C	ISO 306/A
CLTE - Flow (-30 to 30°C)	9.5E-5	cm/cm/°C	ASTM D696
NOTE			
1.	Method I (3 point load)		

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